



# KLIXON® | 7235 & 7236 SERIES

## 7½ to 400 Amp, Thermal Overload Sensing Controls

### FEATURES

- High reliability: does not switch overload current
- Adaptable for AC, DC, single-phase, or three-phase applications
- Stops nuisance trips: unaffected by transient current surges
- Long trouble-free operation: 20,000 operating cycles
- Military approved

### DESCRIPTION

The Klixon® 7235 and 7236 overload sensing controls are designed for the remote sensing of overloads in aircraft electrical systems or other applicable remote systems. They are for the protection of 28 VDC circuits or for 120 VAC single-phase or three-phase circuits operating at 60 to 1000 Hz. For three-phase AC circuit protection, a 28 VDC control circuit is required.

One three-phase relay or three single-phase relays with their coils wired in series may be used in the control circuit. With either arrangement, all three phases will trip open simultaneously when an overload exists in any one phase. Klixon® overload sensing controls consist of a bimetal thermal actuating disc in series with the load terminals and an auxiliary single-phase, double-throw switch fitted to the main base forming a compact vibration-proof construction. The aircraft relay is wired in series with the sensing control through the S2 terminal of the auxiliary switch. When the control senses and overload, the Klixon® disc operates the auxiliary switch, breaking circuit S1-S2 and making circuit S1-S3. This opens the relay, thus opening the load circuit.

PERFORMANCE CHARACTERISTICS	
Amp Rating	7–50 amps: 2,000 amp adjusted circuit Over 50 amps: 4,000 amp adjusted circuit
Vibration Resistance	1.52mm (0.06") total excursion, 10–55 cps
Mechanical Shock Resistance	25G
Acceleration	10G
Resistance	Corrosion: 15 hours (QQ-M-151A) Sand and dust: 4 hours
Explosion Proof	3 cycles at 100 amps
Short Circuit Rupture	Relay capacity: 5 cycles, 20 VDC, 40,000 ft alt.
Weight	gm max

ORDERING INFORMATION
Sensata PN
7235-2-XX (7, 12, 15, 20, 25, 30, 35, 40, 50, 70, 80, 90, 100, 125)
7236-2-XX (150, 175, 200, 250, 300, 400)

## SPECIFICATIONS

	7235-1	7235-2	7236-1	7236-2
<b>Ratings</b>	7 to 125 amps	7 to 125 amps	150 to 400 amps	150 to 400 amps
<b>(S1 - S3) Resistance R1</b>	0.75 ohms	None	0.75 ohms	None
<b>Continuous Current Capacity (S1-S3)</b>	3 amps	10 amps	3 amps	10 amps
<b>(S1-S3) Contact Rating</b>	10 amps	10 amps	10 amps	10 amps

### DIMENSIONAL DRAWINGS - 7235

